

Feedback — Week 1 Quiz

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You submitted this quiz on **Thu 7 May 2015 9:17 PM PDT**. You got a score of **40.00** out of **40.00**.

Question 1

Which of the following describe what an Android Service is, according to the videos in week #1:

Your Answer	Score	Explanation
<input type="checkbox"/> A Service is an application component that responds to system-wide broadcast announcements.	✓ 1.00	
<input type="checkbox"/> A Service is an application component manages access to a structured set of data by encapsulating the data and providing mechanisms for defining data security.	✓ 1.00	
<input checked="" type="checkbox"/> A Service is an application component that can perform long-running operations in the background and does not provide a user interface.	✓ 1.00	
<input type="checkbox"/> A Service is an application component that provides a single, focused thing to the user.	✓ 1.00	
Total	4.00 / 4.00	

Question Explanation

Please see the video on "Overview of Android Started and Bound Services" from week #1.

Question 2

Which of the following are key differences between a Started Service and a Bound Service,

according to the videos from week #1:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> A Bound Service runs only as long as a client is bound to it, whereas a Started Service can run indefinitely.	✓ 1.00	
<input type="checkbox"/> A Bound Service is launched on demand, whereas a Started Service is pre-launched at during system boot sequence.	✓ 1.00	
<input checked="" type="checkbox"/> A Bound Service offers a client/service interface that allows extended two-way conversations between clients and the service.	✓ 1.00	
<input type="checkbox"/> A Bound Service always runs in the same process as its client, whereas a Started Service always runs in a separate process.	✓ 1.00	
Total	4.00 / 4.00	

Question Explanation

Please see the video on "Overview of Android Started and Bound Services" from week #1.

Question 3

Which of the following best describe the purpose of the onStartCommand() hook method, according to the videos from week #1:

Your Answer	Score	Explanation
<input type="checkbox"/> It is used to notify a Service that it's being removed and should therefore cleanup any resources it holds.	✓ 1.00	
<input checked="" type="checkbox"/> It's often used in conjunction with the concurrency model the Service applies to perform its processing.	✓ 1.00	
<input checked="" type="checkbox"/> It is called each time a Started Service is sent an Intent from a client via a call to startService().	✓ 1.00	
<input type="checkbox"/> It is dispatched by the Android Service framework when a Started Service is first launched.	✓ 1.00	

Total	4.00 /
	4.00

Question Explanation

Please see the video on "Overview of Android Started and Bound Services" from week #1.

Question 4

Which of the following are reasons why the `stopSelf()` method is passed the `startId` parameter, according to the videos from week #1:

Your Answer	Score	Explanation
<input type="checkbox"/> To ensure that all the resources allocated by the <code>onCreate()</code> hook method are deallocated in the <code>onDestroy()</code> hook method.	✓ 1.00	
<input type="checkbox"/> To allow the Service to shut itself down and avoid running in the background and consuming system resources indefinitely.	✓ 1.00	
<input type="checkbox"/> To eliminate the need to explicitly acquire and release locks in critical sections.	✓ 1.00	
<input checked="" type="checkbox"/> To avoid prematurely terminating a Service while it is still processing concurrent Intent requests.	✓ 1.00	
Total	4.00 /	
	4.00	

Question Explanation

Please see the video on "Programming Started Services" from week #1.

Question 5

Which of the following are IPC mechanisms Android supports for communicating from a Service to an Activity, according to the videos in week #1:

Your Answer	Score	Explanation
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<input checked="" type="checkbox"/> Use an AIDL-based callback object passed from the Activity to the Service	✓	1.00
<input type="checkbox"/> Send an Intent command via startService()	✓	1.00
<input checked="" type="checkbox"/> Use a Messenger passed from the Activity to the Service	✓	1.00
<input type="checkbox"/> Send an Intent command via bindService()	✓	1.00
Total		4.00 / 4.00

Question Explanation

Please see the video on "Activity and Service Communication" from week #1.

Question 6

Which of the following are reasons why a Handler can't be used for direct communication between Activities and Services, according to the videos from week #1:

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> Handlers don't implement the Parcelable interface	✓ 0.80	
<input checked="" type="checkbox"/> Handlers can't be passed as "extras" to an Intent	✓ 0.80	
<input type="checkbox"/> Handler's can't be used to communicate between different threads	✓ 0.80	
<input type="checkbox"/> If a user has access to resource on the platform, all applications that the user launches have access to that resource	✓ 0.80	
<input type="checkbox"/> Handlers implement the Command Processor pattern, which only works within a single process	✓ 0.80	
Total		4.00 / 4.00

Question Explanation

Please see the video on "Activity and Service Communication with Messengers" from week #1.

Question 7

Which POSA pattern(s) are associated with the use of Android Intents, Started Services, and Messengers, according to the videos in week #1:

Your Answer		Score	Explanation
<input checked="" type="checkbox"/> Command Processor pattern	✓	1.00	
<input checked="" type="checkbox"/> Active Object pattern	✓	1.00	
<input type="checkbox"/> Half-Sync/Half-Async pattern	✓	1.00	
<input checked="" type="checkbox"/> Activator pattern	✓	1.00	
Total		4.00 / 4.00	

Question Explanation

Please see the video on "Activity and Service Communication with Messengers" and "Programming Started Services" from week #1.

Question 8

Which of the following are the meaning of onStartCommand() returning the START_NOT_STICKY value, according to the videos in week #1:

Your Answer		Score	Explanation
<input checked="" type="checkbox"/> Service should remain stopped until explicitly started by some client code	✓	1.00	
<input type="checkbox"/> Stop the Service and return an error code to the component that invoked it	✓	1.00	
<input type="checkbox"/> Restart the Service via onStartCommand(), but don't redeliver the Intent (instead, pass null)	✓	1.00	
<input type="checkbox"/> Restart the Service via onStartcommand, supplying the same Intent as was delivered this time	✓	1.00	

Total	4.00 /
	4.00

Question Explanation

Please see the video on "Programming Started Services" from week #1.

Question 9

Which of the following patterns are applies in the Download application, according to the videos in week #1:

Your Answer		Score	Explanation
<input type="checkbox"/> Chain of Responsibility	✓	1.00	
<input checked="" type="checkbox"/> Factory Method	✓	1.00	
<input type="checkbox"/> Bridge	✓	1.00	
<input checked="" type="checkbox"/> Command Processor	✓	1.00	
Total		4.00 / 4.00	

Question Explanation

Please see the video on "Programming Started Services" from week #1.

Question 10

Which of the following are ways that a Started Service can be shutdown, according to the videos in week #1:

Your Answer		Score	Explanation
<input type="checkbox"/> The Service will be shutdown automatically when all clients unbind from it	✓	1.00	
<input type="checkbox"/> The Service will shutdown automatically when there are no more Intents to process	✓	1.00	

<input checked="" type="checkbox"/> It can call stopSelf() to shut itself down	✓	1.00
<input checked="" type="checkbox"/> Another component can shut down a Service by calling stopService()	✓	1.00
Total		4.00 / 4.00

Question Explanation

Please see the video on "Programming Started Services" from week #1.